

ROYAL BANK OF CANADA
Form 424B2
September 29, 2017

RBC Capital Markets® Filed Pursuant to Rule 424(b)(2)
Registration Statement No. 333-208507

Pricing Supplement

Dated September 27, 2017 \$675,000
Auto-Callable Contingent Coupon Barrier Notes
To the Product Linked to the Lesser Performing of the Common Stock
Prospectus Supplement of Amazon.com, Inc., the American Depository Shares
No. TP-1, the Prospectus of Alibaba Group Holding Limited and the Common
Supplement and the Stock of Alphabet Inc. due April 2, 2018
Prospectus, Each Dated Royal Bank of Canada
January 8, 2016

Royal Bank of Canada is offering Auto-Callable Contingent Coupon Barrier Notes (the “Notes”) linked to the lesser performing of three equity securities (each, a “Reference Stock” and collectively, the “Reference Stocks”). The Notes offered are senior unsecured obligations of Royal Bank of Canada, will pay a quarterly Contingent Coupon at the rate and under the circumstances specified below, and will have the terms described in the documents described above, as supplemented or modified by this pricing supplement. The Notes will not be listed on any securities exchange.

Reference Stocks	Initial Stock Prices	Coupon Barriers and Trigger Prices
Amazon.com, Inc. (“AMZN”)	\$950.87	\$760.70, which is 80.00% of its Initial Stock Price*
Alibaba Group Holding Limited (“BABA”)	\$170.99	\$136.79, which is 80.00% of its Initial Stock Price*
Alphabet Inc. (“GOOGL”)	\$959.90	\$767.92, which is 80.00% of its Initial Stock Price

* Rounded to two decimal places

The Notes do not guarantee any return of principal at maturity. Any payments on the Notes are subject to our credit risk.

Investing in the Notes involves a number of risks. See “Risk Factors” beginning on page PS-5 of the product prospectus supplement dated January 8, 2016, on page S-1 of the prospectus supplement dated January 8, 2016, and “Selected Risk Considerations” beginning on page P-7 of this pricing supplement.

The Notes will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation or any other Canadian or U.S. government agency or instrumentality.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the Notes or determined that this pricing supplement is truthful or complete. Any representation to the contrary is a criminal offense.

Issuer:	Royal Bank of Canada	Listing:	None
Trade Date:	September 27, 2017	Principal Amount:	\$1,000 per Note
Issue Date:	September 29, 2017	Maturity Date:	April 2, 2018
Observation Dates:	Quarterly, as set forth below.	Coupon Payment Dates:	Quarterly, as set forth below
Valuation Date:	March 27, 2018	Contingent Coupon Rate:	12.95% per annum
Contingent Coupon:	If the closing price of each Reference Stock is greater than or equal to its Coupon Barrier on the applicable Observation Date, we will pay the Contingent Coupon applicable to the corresponding Observation Date. You may not receive any Contingent Coupons during the term of the Notes.		

Payment at Maturity (if held to maturity): If the Notes are not previously called, we will pay you at maturity an amount based on the Final Stock Price of the Lesser Performing Reference Stock:

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For each \$1,000 in principal amount, \$1,000 plus the Contingent Coupon at maturity, unless the Final Stock Price of the Lesser Performing Reference Stock is less than its Trigger Price.

If the Final Stock Price of the Lesser Performing Reference Stock is less than its Trigger Price, then the investor will receive at maturity, for each \$1,000 in principal amount, the number of shares of the Lesser Performing Reference Stock equal to the Physical Delivery Amount, or at our election, the cash value of those shares.

Investors could lose some or all of the value of their initial investment if there has been a decline in the trading price of the Lesser Performing Reference Stock.

Physical Delivery
Amount:

For each \$1,000 principal amount, a number of shares of the Lesser Performing Reference Stock equal to the principal amount divided by its Initial Stock Price, subject to adjustment as described in the product prospectus supplement.

Lesser Performing
Reference Stock:

The Reference Stock with the largest percentage decrease (or the smallest percentage increase, if none decrease) between its Initial Stock Price and its Final Stock Price.

Call Feature:

If the closing price of each Reference Stock is greater than or equal to its Initial Stock Price on any Observation Date, the Notes will be automatically called for 100% of their principal amount, plus the Contingent Coupon applicable to the corresponding Observation Date.

Call Settlement Dates: The Coupon Payment Date corresponding to that Observation Date.

Final Stock Price: For each Reference Stock, its closing price on the Valuation Date.

CUSIP: 78013GEX9

	Per Note	Total
Price to public ⁽¹⁾	100.00%	\$675,000.00
Underwriting discounts and commissions ⁽¹⁾	2.00%	\$13,500.00
Proceeds to Royal Bank of Canada	98.00%	\$661,500.00

⁽¹⁾Certain dealers who purchased the Notes for sale to certain fee-based advisory accounts may have foregone some or all of their underwriting discount or selling concessions. The public offering price for investors purchasing the Notes in these accounts was between \$980.00 and \$1,000 per \$1,000 in principal amount.

The initial estimated value of the Notes as of the date of this pricing supplement is \$968.49 per \$1,000 in principal amount, which is less than the price to public. The actual value of the Notes at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. We describe our determination of the initial estimated value in more detail below.

RBC Capital Markets, LLC, which we refer to as RBCCM, acting as agent for Royal Bank of Canada, received a commission of \$20.00 per \$1,000 in principal amount of the Notes and used a portion of that commission to allow selling concessions to other dealers of up to \$20.00 per \$1,000 in principal amount of the Notes. The other dealers may forgo, in their sole discretion, some or all of their selling concessions. See “Supplemental Plan of Distribution (Conflicts of Interest)” below.

RBC Capital Markets, LLC

Auto-Callable Contingent Coupon Barrier Notes
 Linked to the Lesser Performing of the
 Common Stock of Amazon.com, Inc., the
 American Depositary Shares of Alibaba Group
 Holding Limited and the Common Stock of
 Alphabet Inc. due April 2, 2018
 Royal Bank of Canada

SUMMARY

The information in this “Summary” section is qualified by the more detailed information set forth in this pricing supplement, the product prospectus supplement, the prospectus supplement, and the prospectus.

General:	This pricing supplement relates to an offering of Auto-Callable Contingent Coupon Barrier Notes (the “Notes”) linked to the securities referenced on the cover page (the “Reference Stocks”).
Issuer:	Royal Bank of Canada (“Royal Bank”)
Issue:	Senior Global Medium-Term Notes, Series G
Trade Date:	September 27, 2017
Issue Date:	September 29, 2017
Term:	Six (6) months
Denominations:	Minimum denomination of \$1,000, and integral multiples of \$1,000 thereafter.
Designated Currency:	U.S. Dollars
Contingent Coupon:	We will pay you a Contingent Coupon during the term of the Notes, periodically in arrears on each Coupon Payment Date, under the conditions described below: · If the closing price of each Reference Stock is greater than or equal to its Coupon Barrier on the applicable Observation Date, we will pay the Contingent Coupon applicable to that Observation Date. · If the closing price of any of the Reference Stocks is less than its Coupon Barrier on the applicable Observation Date, we will not pay you the Contingent Coupon applicable to that Observation Date. You may not receive a Contingent Coupon for one or more quarterly periods during the term of the Notes.
Contingent Coupon Rate:	12.95% per annum (3.2375% per quarter)
Observation Dates:	December 27, 2017 and the Valuation Date.
Coupon Payment Dates:	The Contingent Coupon, if payable, will be paid quarterly on January 2, 2018 and the Maturity Date. The record date for each Coupon Payment Date will be the date one business day prior to that scheduled Coupon Payment Date; provided, however, that any Contingent Coupon payable at maturity or upon a call will be payable to the person to whom the payment at maturity or upon the call, as the case may be, will be payable.
Record Dates:	
Call Feature:	If, on any Observation Date, the closing price of each Reference Stock is greater than or equal to its Initial Stock Price, then the Notes will be automatically called. If the Notes are automatically called, then, on the applicable Call Settlement Date, for each \$1,000
Payment if Called:	principal amount, you will receive \$1,000 plus the Contingent Coupon otherwise due on that Call Settlement Date.
Call Settlement Dates:	If the Notes are called on any Observation Date, the Call Settlement Date will be the Coupon Payment Date corresponding to that Observation Date.

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Valuation Date: March 27, 2018

Maturity Date: April 2, 2018

Initial Stock Price: For each Reference Stock, its closing price on the Trade Date, as specified on the cover page of this pricing supplement. The Initial Stock Price of each Reference Stock is subject to adjustment as described in “General Terms of the Notes—Anti-dilution Adjustments” in the product prospectus supplement.

Final Stock Price: For each Reference Stock, its closing price on the Valuation Date.

Trigger Price and Coupon Barrier: For each Reference Stock, 80.00% of its Initial Stock Price, as specified on the cover page on the cover page of this pricing supplement. The Trigger Price and Coupon Barrier of each Reference Stock is subject to adjustment as described in “General Terms of the Notes—Anti-dilution Adjustments” in the product prospectus supplement.

P-2 RBC Capital Markets, LLC

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Payment at Maturity (if not previously called and held to maturity):	If the Notes are not previously called, we will pay you at maturity an amount based on the Final Stock Price of the Lesser Performing Reference Stock: · If the Final Stock Price of the Lesser Performing Reference Stock is greater than or equal to its Trigger Price, we will pay you a cash payment equal to the principal amount plus the Contingent Coupon otherwise due on the Maturity Date. · If the Final Stock Price of the Lesser Performing Reference Stock is below its Trigger Price, you will receive at maturity, for each \$1,000 in principal amount, the number of shares of the Lesser Performing Reference Stock equal to the Physical Delivery Amount, or at our election, the Cash Delivery Amount. If we elect to deliver shares of the Lesser Performing Reference Stock, fractional shares will be paid in cash. The value of the cash or shares that you receive will be less than your principal amount, if anything, resulting in a loss that is proportionate to the decline of the Lesser Performing Reference Stock from the Trade Date to the Valuation Date. Investors in the Notes could lose some or all of their investment if there has been a decline in the trading price of the Lesser Performing Reference Stock below its Trigger Price.
Physical Delivery Amount:	For each \$1,000 in principal amount, a number of shares of the Lesser Performing Reference Stock equal to the principal amount divided by its Initial Stock Price, subject to adjustment as described in the product prospectus supplement. If this number is not a round number, then the number of shares of the Lesser Performing Reference Stock to be delivered will be rounded down and the fractional part shall be paid in cash.
Cash Delivery Amount: Lesser	The product of the Physical Delivery Amount multiplied by the Final Stock Price of the Lesser Performing Reference Stock.
Performing Reference Stock:	The Reference Stock with the largest percentage decrease (or the smallest percentage increase, if none decrease) between its Initial Stock Price and its Final Stock Price.
Market Disruption Events: Calculation Agent:	The occurrence of a market disruption event (or a non-trading day) as to any of the Reference Stocks will result in the postponement of an Observation Date or the Valuation Date as to that Reference Stock, as described in the product prospectus supplement, but not to any non-affected Reference Stock. RBC Capital Markets, LLC ("RBCCM")
U.S. Tax Treatment:	By purchasing a Note, each holder agrees (in the absence of a change in law, an administrative determination or a judicial ruling to the contrary) to treat the Note as a callable pre-paid contingent income-bearing derivative contract linked to the Reference Stocks for U.S. federal income tax purposes. However, the U.S. federal income tax consequences of your investment in the Notes are uncertain and the Internal Revenue Service could assert that the Notes should be taxed in a manner that is different from that described in the preceding sentence. Please see the section below, "Supplemental Discussion of U.S. Federal Income Tax Consequences," and the discussion (including the opinion of our counsel Morrison & Foerster LLP) in the product prospectus supplement dated January 8, 2016 under "Supplemental Discussion of U.S. Federal Income Tax Consequences," which apply to the Notes.

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Secondary Market: RBCCM (or one of its affiliates), though not obligated to do so, may maintain a secondary market in the Notes after the Issue Date. The amount that you may receive upon sale of your Notes prior to maturity may be less than the principal amount.

Listing: The Notes will not be listed on any securities exchange.

Settlement: DTC global (including through its indirect participants Euroclear and Clearstream, Luxembourg as described under “Description of Debt Securities—Ownership and Book-Entry Issuance” in the prospectus dated January 8, 2016).

Terms Incorporated in the Master Note: All of the terms appearing above the item captioned “Secondary Market” on the cover page and pages P-2 and P-3 of this pricing supplement and the terms appearing under the caption “General Terms of the Notes” in the product prospectus supplement dated January 8, 2016, as modified by this pricing supplement.

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ADDITIONAL TERMS OF YOUR NOTES

You should read this pricing supplement together with the prospectus dated January 8, 2016, as supplemented by the prospectus supplement dated January 8, 2016 and the product prospectus supplement dated January 8, 2016, relating to our Senior Global Medium-Term Notes, Series G, of which these Notes are a part. Capitalized terms used but not defined in this pricing supplement will have the meanings given to them in the product prospectus supplement. In the event of any conflict, this pricing supplement will control. The Notes vary from the terms described in the product prospectus supplement in several important ways. You should read this pricing supplement carefully.

This pricing supplement, together with the documents listed below, contains the terms of the Notes and supersedes all prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Risk Factors” in the prospectus supplement dated January 8, 2016 and in the product prospectus supplement dated January 8, 2016, as the Notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisors before you invest in the Notes. You may access these documents on the Securities and Exchange Commission (the “SEC”) website at www.sec.gov as follows (or if that address has changed, by reviewing our filings for the relevant date on the SEC website):

Prospectus dated January 8, 2016:

<http://www.sec.gov/Archives/edgar/data/1000275/000121465916008810/j18160424b3.htm>

Prospectus Supplement dated January 8, 2016:

<http://www.sec.gov/Archives/edgar/data/1000275/000121465916008811/p14150424b3.htm>

Product Prospectus Supplement dated January 8, 2016:

<https://www.sec.gov/Archives/edgar/data/1000275/000114036116047446/form424b5.htm>

Our Central Index Key, or CIK, on the SEC website is 1000275. As used in this pricing supplement, “we,” “us,” or “our” refers to Royal Bank of Canada.

P-4 RBC Capital Markets, LLC

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HYPOTHETICAL EXAMPLES

The table set out below is included for illustration purposes only. The table illustrates the Payment at Maturity of the Notes (including the final Contingent Coupon, if payable) for a hypothetical range of performance for the Lesser Performing Reference Stock, assuming the following terms and that the Notes are not automatically called prior to maturity:

Hypothetical Initial Stock Price:	\$100.00*
Hypothetical Call Stock Price:	\$100.00, which is 100% of the Initial Stock Price
Hypothetical Trigger Price and Coupon Barrier:	\$80.00, which is 80.00% of the hypothetical Initial Stock Price
Contingent Coupon Rate:	12.95% per annum (or 3.2375% per quarter)
Contingent Coupon Amount:	\$32.375 per quarter
Observation Dates:	Quarterly
Principal Amount:	\$1,000 per Note

* The hypothetical Initial Stock Price of \$100 used in the examples below has been chosen for illustrative purposes only and is not the actual Initial Stock Price of any Reference Stock. The actual Initial Stock Price for each Reference Stock is set forth on the cover page of this pricing supplement. We make no representation or warranty as to which of the Reference Stocks will be the Lesser Performing Reference Stock. It is possible that the Final Stock Price of each Reference Stock will be less than its Initial Stock Price.

Hypothetical Final Stock Price of the Lesser Performing Reference Stock	Percentage Change of the Lesser Performing Reference Stock	Payment at Maturity (assuming that the Notes were not previously called)	Physical Delivery Amount as Number of Shares of the Lesser Performing Reference Stock	Cash Delivery Amount
\$200.00	100.00%	\$1,032.375*	n/a	n/a
\$190.00	90.00%	\$1,032.375*	n/a	n/a
\$180.00	80.00%	\$1,032.375*	n/a	n/a
\$170.00	70.00%	\$1,032.375*	n/a	n/a
\$150.00	50.00%	\$1,032.375*	n/a	n/a
\$140.00	40.00%	\$1,032.375*	n/a	n/a
\$130.00	30.00%	\$1,032.375*	n/a	n/a
\$120.00	20.00%	\$1,032.375*	n/a	n/a
\$110.00	10.00%	\$1,032.375*	n/a	n/a
\$100.00	0.00%	\$1,032.375*	n/a	n/a
\$90.00	-10.00%	\$1,032.375*	n/a	n/a
\$80.00	-20.00%	\$1,032.375*	n/a	n/a
\$75.00	-25.00%		10	\$750.00

		Physical or Cash Delivery Amount		
\$65.00	-35.00%	Physical or Cash Delivery Amount	10	\$650.00
\$60.00	-40.00%	Physical or Cash Delivery Amount	10	\$600.00
\$50.00	-50.00%	Physical or Cash Delivery Amount	10	\$500.00
\$40.00	-60.00%	Physical or Cash Delivery Amount	10	\$500.00
\$20.00	-80.00%	Physical or Cash Delivery Amount	10	\$200.00
\$30.00	-70.00%	Physical or Cash Delivery Amount	10	\$300.00
\$10.00	-90.00%	Physical or Cash Delivery Amount	10	\$100.00
\$0.00	-100.00%	Physical or Cash Delivery Amount	10	\$0.00

*Including the final Contingent Coupon, if payable.

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Hypothetical Examples of Amounts Payable at Maturity

The following hypothetical examples illustrate how the payments at maturity set forth in the table above are calculated, assuming the Notes have not been called.

Example 1: The price of the Lesser Performing Reference Stock increases by 50% from the Initial Stock Price of \$100.00 to its Final Stock Price of \$150.00. Because the Final Stock Price of the Lesser Performing Reference Stock is greater than its Trigger Price and its Coupon Barrier of \$80.00, the investor receives at maturity, in addition to the final Contingent Coupon of \$32.375 otherwise due on the Notes, a cash payment of \$1,000 per Note, despite the 50% appreciation in the price of the Lesser Performing Reference Stock.

Example 2: The price of the Lesser Performing Reference Stock decreases by 15% from the Initial Stock Price of \$100.00 to its Final Stock Price of \$85.00. Because the Final Stock Price of the Lesser Performing Reference Stock is greater than its Trigger Price and its Coupon Barrier of \$80.00, the investor receives at maturity, in addition to the final Contingent Coupon of \$32.375 otherwise due on the Notes, a cash payment of \$1,000 per Note, despite the 15% decline in the price of the Lesser Performing Reference Stock.

Example 3: The price of the Lesser Performing Reference Stock is \$50.00 on the Valuation Date, which is less than its Trigger Price and its Coupon Barrier of \$80.00. Because the Final Stock Price of the Lesser Performing Reference Stock is less than its Trigger Price and its Coupon Barrier, the final Contingent Coupon will not be payable on the Maturity Date, and the investor receives 10 shares of the Lesser Performing Reference Stock at maturity, or at our option, the Cash Delivery Amount, calculated as follows:

Physical Delivery Amount x Final Stock Price of the Lesser Performing Reference Stock = 10 x \$50 = \$500.00

* * *

The Payments at Maturity shown above are entirely hypothetical; they are based on prices of the Reference Stocks that may not be achieved on the Valuation Date and on assumptions that may prove to be erroneous. The actual market value of your Notes on the Maturity Date or at any other time, including any time you may wish to sell your Notes, may bear little relation to the hypothetical Payments at Maturity shown above, and those amounts should not be viewed as an indication of the financial return on an investment in the Notes or on an investment in any Reference Stock.

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SELECTED RISK CONSIDERATIONS

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in the Reference Stocks. These risks are explained in more detail in the section “Risk Factors” in the product prospectus supplement. In addition to the risks described in the prospectus supplement and the product prospectus supplement, you should consider the following:

Principal at Risk — Investors in the Notes could lose all or a substantial portion of their principal amount if there is a decline in the trading price of the Lesser Performing Reference Stock between the Trade Date and the Valuation Date. If the Notes are not automatically called and the Final Stock Price of the Lesser Performing Reference Stock on the Valuation Date is less than its Trigger Price, the value of the shares of the Lesser Performing Reference Stock or cash that you receive at maturity will represent a loss of your principal that is proportionate to the decline in the closing price of the Lesser Performing Reference Stock from the Trade Date to the Valuation Date. If you receive shares of the Lesser Performing Reference Stock, their value could decrease between the Valuation Date and the Maturity Date. Any Contingent Coupons received on the Notes prior to the Maturity Date may not be sufficient to compensate for any such loss.

The Notes Are Subject to an Automatic Call — If on any Observation Date, the closing price of each Reference Stock is greater than or equal to its Initial Stock Price, then the Notes will be automatically called. If the Notes are automatically called, then, on the applicable Call Settlement Date, for each \$1,000 in principal amount, you will receive \$1,000 plus the Contingent Coupon otherwise due on the applicable Call Settlement Date. You will not receive any Contingent Coupons after the Call Settlement Date. You may be unable to reinvest your proceeds from the automatic call in an investment with a return that is as high as the return on the Notes would have been if they had not been called.

You May Not Receive Any Contingent Coupons — We will not necessarily make any coupon payments on the Notes. If the closing price of any of the Reference Stocks on an Observation Date is less than its Coupon Barrier, we will not pay you the Contingent Coupon applicable to that Observation Date. If the closing price of any of the Reference Stocks is less than its Coupon Barrier on each of the Observation Dates and on the Valuation Date, we will not pay you any Contingent Coupons during the term of, and you will not receive a positive return on your Notes. Generally, this non-payment of the Contingent Coupon coincides with a period of greater risk of principal loss on your Notes. Accordingly, if we do not pay the Contingent Coupon on the Maturity Date, you will also incur a loss of principal, because the Final Stock Price of the Lesser Performing Reference Stock will be less than its Trigger Price.

The Notes Are Linked to the Lesser Performing Reference Stock, Even if the Other Reference Stocks Perform Better — If any of the Reference Stocks has a Final Stock Price that is less than its Trigger Price, your return will be linked to the lesser performing of the three Reference Stocks. Even if the Final Stock Prices of the other Reference Stocks have increased compared to their Initial Stock Prices, or have experienced a decrease that is less than that of the Lesser Performing Reference Stock, your return will only be determined by reference to the performance of the Lesser Performing Reference Stock, regardless of the performance of the other Reference Stocks. Because the issuer of each of the Reference Stocks operates in the technology industry, they both may experience simultaneous and significant declines due to adverse conditions in that sector.

Your Payment on the Notes Will Be Determined by Reference to Each Reference Stock Individually, Not to a Basket, and the Payment at Maturity Will Be Based on the Performance of the Lesser Performing Reference Stock — The Payment at Maturity will be determined only by reference to the performance of the Lesser Performing Reference Stock, regardless of the performance of the other Reference Stocks. The Notes are not linked to a weighted

basket, in which the risk may be mitigated and diversified among each of the basket components. For example, in the case of notes linked to a weighted basket, the return would depend on the weighted aggregate performance of the basket components reflected as the basket return. As a result, the depreciation of one basket component could be mitigated by the appreciation of the other basket components, as scaled by the weighting of that basket component. However, in the case of the Notes, the individual performance of each Reference Stocks would not be combined, and the depreciation of any Reference Stock would not be mitigated by any appreciation of the other Reference Stocks. Instead, your return will depend solely on the Final Stock Price of the Lesser Performing Reference Stock.

The Call Feature and the Contingent Coupon Feature Limit Your Potential Return — The return potential of the Notes is limited to the pre-specified Contingent Coupon Rate, regardless of the appreciation of the Reference Stocks. In addition, the total return on the Notes will vary based on the number of Observation Dates on which the Contingent Coupon becomes payable prior to maturity or an automatic call. Further, if the Notes are called due to the Call Feature, you will not receive any Contingent Coupons or any other payment in respect of any Observation Dates after the applicable Call Settlement Date. Since the Notes could be called as early as the first Observation Date, the total return on the Notes could be limited to one Contingent Coupon. If the Notes are not called, you may be subject to the full downside performance of the Lesser Performing Reference Stock even though your potential return is limited to the Contingent Coupon Rate. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the Reference Stocks.

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Your Return May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity — The return that you will receive on the Notes, which could be negative, may be less than the return you could earn on other investments. Even if your return is positive, your return may be less than the return you would earn if you bought a conventional senior interest bearing debt security of Royal Bank.

Payments on the Notes Are Subject to Our Credit Risk, and Changes in Our Credit Ratings Are Expected to Affect the Market Value of the Notes — The Notes are Royal Bank's senior unsecured debt securities. As a result, your receipt of any Contingent Coupons, if payable, and the amount due on any relevant payment date is dependent upon Royal Bank's ability to repay its obligations on the applicable payment dates. This will be the case even if the prices of the Reference Stocks increase after the Trade Date. No assurance can be given as to what our financial condition will be during the term of the Notes.

There May Not Be an Active Trading Market for the Notes-Sales in the Secondary Market May Result in Significant Losses — There may be little or no secondary market for the Notes. The Notes will not be listed on any securities exchange. RBCCM and other affiliates of Royal Bank may make a market for the Notes; however, they are not required to do so. RBCCM or any other affiliate of Royal Bank may stop any market-making activities at any time. Even if a secondary market for the Notes develops, it may not provide significant liquidity or trade at prices advantageous to you. We expect that transaction costs in any secondary market would be high. As a result, the difference between bid and asked prices for your Notes in any secondary market could be substantial.

The Initial Estimated Value of the Notes Is Less than the Price to the Public — The initial estimated value set forth on the cover page of this pricing supplement does not represent a minimum price at which we, RBCCM or any of our affiliates would be willing to purchase the Notes in any secondary market (if any exists) at any time. If you attempt to sell the Notes prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the prices of the Reference Stocks, the borrowing rate we pay to issue securities of this kind, and the inclusion in the price to the public of the underwriting discount and the estimated costs relating to our hedging of the Notes. These factors, together with various credit, market and economic factors over the term of the Notes, are expected to reduce the price at which you may be able to sell the Notes in any secondary market and will affect the value of the Notes in complex and unpredictable ways. Assuming no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your Notes prior to maturity may be less than your original purchase price, as any such sale price would not be expected to include the underwriting discount and the hedging costs relating to the Notes. In addition to bid-ask spreads, the value of the Notes determined by RBCCM for any secondary market price is expected to be based on the secondary rate rather than the internal funding rate used to price the Notes and determine the initial estimated value. As a result, the secondary price will be less than if the internal funding rate was used. The Notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Notes to maturity.

The Initial Estimated Value of the Notes on the Cover Page of this Pricing Supplement Is an Estimate Only, Calculated as of the Time the Terms of the Notes Were Set — The initial estimated value of the Notes is based on the value of our obligation to make the payments on the Notes, together with the mid-market value of the derivative embedded in the terms of the Notes. See "Structuring the Notes" below. Our estimate is based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the Notes. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the Notes or similar securities at a price that is significantly different than we do.

The value of the Notes at any time after the Trade Date will vary based on many factors, including changes in market conditions, and cannot be predicted with accuracy. As a result, the actual value you would receive if you sold the Notes in any secondary market, if any, should be expected to differ materially from the initial estimated value of your Notes.

Market Disruption Events and Adjustments — The payment at maturity, each Observation Date and the Valuation Date are subject to adjustment as described in the product prospectus supplement. For a description of what constitutes a market disruption event as well as the consequences of that market disruption event, see “General Terms of the Notes—Market Disruption Events” in the product prospectus supplement.

Our Business Activities May Create Conflicts of Interest — We and our affiliates expect to engage in trading activities related to the Reference Stocks that are not for the account of holders of the Notes or on their behalf. These trading activities may present a conflict between the holders’ interests in the Notes and the interests we and our affiliates will have in their proprietary accounts, in facilitating transactions, including options and other derivatives transactions, for their customers and in accounts under their management. These trading activities, if they influence the share price of the Reference Stocks, could be adverse to the interests of the holders of the Notes. We and one or more of our affiliates may, at present or in the future, engage in business with the issuers of the Reference Stocks, including making loans to or providing advisory services. These services could include investment banking and merger and acquisition advisory services. These activities may present a conflict between our or one or more of our affiliates’ obligations and your interests as a holder of the Notes. Moreover, we and our affiliates may have published, and in the future expect to publish, research reports with respect to the Reference Stocks. This research is modified from time to time without notice and may express opinions or provide recommendations that are

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inconsistent with purchasing or holding the Notes. Any of these activities by us or one or more of our affiliates may affect the share price of the Reference Stocks, and, therefore, the market value of the Notes.

Owning the Notes Is Not the Same as Owning the Reference Stocks — The return on your Notes is unlikely to reflect the return you would realize if you actually owned shares of the Reference Stocks. For instance, you will not receive or be entitled to receive any dividend payments or other distributions on these securities during the term of your Notes. As an owner of the Notes, you will not have voting rights or any other rights that holders of these securities may have. Furthermore, the Reference Stocks may appreciate substantially during the term of the Notes, while your potential return will be limited to the applicable Contingent Coupon payments.

You Must Rely on Your Own Evaluation of the Merits of an Investment Linked to the Reference Stocks — In the ordinary course of their business, our affiliates may have expressed views on expected movement in the Reference Stocks, and may do so in the future. These views or reports may be communicated to our clients and clients of our affiliates. However, these views are subject to change from time to time. Moreover, other professionals who transact business in markets relating to any Reference Stock may at any time have significantly different views from those of our affiliates. For these reasons, you are encouraged to derive information concerning the Reference Stocks from multiple sources, and you should not rely solely on views expressed by our affiliates.

There Is No Affiliation Between the Issuers of the Reference Stocks and RBCCM, and RBCCM Is Not Responsible for any Disclosure by the Issuers of the Reference Stocks — We are not affiliated with the issuers of the Reference Stocks. However, we and our affiliates may currently, or from time to time in the future engage in business with these companies. Nevertheless, neither we nor our affiliates assume any responsibilities for the accuracy or the completeness of any information that any other company prepares. You, as an investor in the Notes, should make your own investigation into the Reference Stocks and their issuers. None of these companies are involved in this offering, and have no obligation of any sort with respect to your Notes. These companies have no obligation to take your interests into consideration for any reason, including when taking any corporate actions that might affect the value of your Notes.

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INFORMATION REGARDING THE REFERENCE STOCKS

The Reference Stocks are registered under the Securities Exchange Act of 1934 (the “Exchange Act”). Companies with securities registered under that Act are required to file periodically certain financial and other information specified by the SEC. Information provided to or filed with the SEC can be inspected and copied at the public reference facilities maintained by the SEC or through the SEC’s website at www.sec.gov. In addition, information regarding the Reference Stocks may be obtained from other sources including, but not limited to, press releases, newspaper articles and other publicly disseminated documents.

The following information regarding each issuer of the Reference Stocks is derived from publicly available information.

We have not independently verified the accuracy or completeness of reports filed by any issuer with the SEC, information published by it on its website or in any other format, information about it obtained from any other source or the information provided below.

We obtained the information regarding the historical performance of the Reference Stocks set forth below from Bloomberg Financial Markets.

We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets. The historical performance of the Reference Stocks should not be taken as an indication of their future performance, and no assurance can be given as to the market prices of any Reference Stock at any time during the term of the Notes. We cannot give you assurance that the performance of any Reference Stock will not result in the loss of all or part of your investment.

Amazon.com, Inc. (“AMZN”)

Amazon.com, Inc. is an online retailer that offers a wide range of products. The company products include books, music, videotapes, computers, electronics, home and garden, and numerous other products. Amazon offers personalized shopping services, Web-based credit card payment, and direct shipping to customers.

The company’s common stock is listed on the on the Nasdaq Global Select Market (“NASDAQ”) under the ticker symbol “AMZN.”

Alibaba Group Holding Limited (“BABA”)

Alibaba Group Holding Limited operates as a holding company. The company provides internet infrastructure, e-commerce, online financial, and internet content services through its subsidiaries. Alibaba Group Holding offers its products and services worldwide.

The company’s American depository shares are listed on the New York Stock Exchange under the ticker symbol “BABA.”

Alphabet Inc. (“GOOGL”)

Alphabet Inc. operates as a holding company. The company, through its subsidiaries, provides web-based search, advertisements, maps, software applications, mobile operating systems, consumer content, enterprise solutions, commerce, and hardware products.

The company’s Class A common stock is listed on the NASDAQ under the ticker symbol “GOOGL.”

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HISTORICAL INFORMATION

The tables below set forth the intra-day high, intra-day low and period-end closing prices of the Reference Stocks. In addition, below the tables are graphs setting forth the information relating to the historical performance of the Reference Stocks. The information provided in these tables (except as to BABA) is for the four calendar quarters of 2013, 2014, 2015 and 2016, the first two calendar quarters of 2017, and the period from July 1, 2017 through September 27, 2017.

We obtained the information regarding the historical performance of the Reference Stocks in the graphs and tables below from Bloomberg Financial Markets.

We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets. The historical performance of any Reference Stock should not be taken as an indication of its future performance, and no assurance can be given as to the prices of the Reference Stocks at any time.

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Historical Information for Amazon.com, Inc. ("AMZN")

Below is a table setting forth the intra-day high, intra-day low and period-end closing prices of this Reference Stock. The information provided in the table is for the period from January 1, 2013 through September 27, 2017.

Period-Start Date	Period-End Date	High Intra-Day Price of this Reference Stock (\$)	Low Intra-Day Price of this Reference Stock (\$)	Period-End Closing Price of this Reference Stock (\$)
1/1/2013	3/31/2013	284.68	252.07	266.49
4/1/2013	6/30/2013	283.31	245.78	277.69
7/1/2013	9/30/2013	320.50	277.18	312.64
10/1/2013	12/31/2013	405.50	296.56	398.79
1/1/2014	3/31/2014	408.06	330.89	336.52
4/1/2014	6/30/2014	348.17	284.38	324.78
7/1/2014	9/30/2014	364.84	304.60	322.44
10/1/2014	12/31/2014	341.15	284.00	310.35
1/1/2015	3/31/2015	389.37	285.26	372.10
4/1/2015	6/30/2015	452.64	368.34	434.09
7/1/2015	9/30/2015	580.57	425.68	511.89
10/1/2015	12/31/2015	696.38	506.14	675.89
1/1/2016	3/31/2016	657.09	474.02	593.64
4/1/2016	6/30/2016	731.41	585.25	715.62
7/1/2016	9/30/2016	839.95	716.59	837.31
10/1/2016	12/31/2016	847.06	710.25	749.87
1/1/2017	3/31/2017	890.22	747.76	886.54
4/1/2017	6/30/2017	1,016.50	884.59	968.00
7/1/2017	9/27/2017	1,083.15	931.75	950.87

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

The graph below illustrates the performance of this Reference Stock from January 1, 2013 to September 27, 2017, reflecting its Initial Stock Price of \$950.87. The red line represents its Coupon Barrier and Trigger Price of \$760.70, which is equal to 80.00% of its Initial Stock Price, rounded to two decimal places.

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Historical Information for Alibaba Group Holding Limited (“BABA”)

Below is a table setting forth the intra-day high, intra-day low and period-end closing prices of this Reference Stock. The information provided in the table is for the period from January 1, 2015 through September 27, 2017.

Period-Start Date	Period-End Date	High Intra-Day Price of this Reference Stock (\$)	Low Intra-Day Price of this Reference Stock (\$)	Period-End Closing Price of this Reference Stock (\$)
1/1/2015	3/31/2015	105.33	80.03	83.24
4/1/2015	6/30/2015	95.06	77.77	82.27
7/1/2015	9/30/2015	85.38	57.30	58.97
10/1/2015	12/31/2015	86.42	58.20	81.27
1/1/2016	3/31/2016	79.84	59.25	79.03
4/1/2016	6/30/2016	82.00	73.30	79.53
7/1/2016	9/30/2016	109.87	77.70	105.79
10/1/2016	12/31/2016	109.00	86.02	87.81
1/1/2017	3/31/2017	110.44	88.09	107.83
4/1/2017	6/30/2017	148.29	106.78	140.90
7/1/2017	9/27/2017	180.85	139.50	170.99

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

The graph below illustrates the performance of this Reference Stock from January 1, 2015 to September 27, 2017, reflecting its Initial Stock Price of \$170.99. The red line represents its Coupon Barrier and Trigger Price of \$136.79, which is equal to 80.00% of its Initial Stock Price, rounded to two decimal places.

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Historical Information for Alphabet Inc. ("GOOGL")

Below is a table setting forth the intra-day high, intra-day low and period-end closing prices of this Reference Stock. The information provided in the table is for the period from January 1, 2013 through September 27, 2017.

Period-Start Date	Period-End Date	High Intra-Day Price of this Reference Stock (\$)	Low Intra-Day Price of this Reference Stock (\$)	Period-End Closing Price of this Reference Stock (\$)
1/1/2013	3/31/2013	422.41	348.10	397.40
4/1/2013	6/30/2013	460.70	381.04	440.61
7/1/2013	9/30/2013	464.45	423.19	438.38
10/1/2013	12/31/2013	561.04	421.90	560.90
1/1/2014	3/31/2014	615.04	542.03	557.80
4/1/2014	6/30/2014	589.60	511.04	584.67
7/1/2014	9/30/2014	608.85	567.60	588.41
10/1/2014	12/31/2014	592.40	497.22	530.66
1/1/2015	3/31/2015	583.12	491.00	554.70
4/1/2015	6/30/2015	584.60	529.01	540.04
7/1/2015	9/30/2015	713.30	539.80	638.37
10/1/2015	12/31/2015	798.69	631.24	778.01
1/1/2016	3/31/2016	810.21	682.20	762.90
4/1/2016	6/30/2016	790.95	672.71	703.53
7/1/2016	9/30/2016	818.97	699.00	804.06
10/1/2016	12/31/2016	839.00	744.03	792.45
1/1/2017	3/31/2017	874.35	796.89	847.80
4/1/2017	6/30/2017	1,008.46	834.78	929.68
7/1/2017	9/27/2017	1,006.05	915.52	959.90

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

The graph below illustrates the performance of this Reference Stock from January 1, 2013 to September 27, 2017, reflecting its Initial Stock Price of \$959.90. The red line represents its Coupon Barrier and Trigger Price of \$767.92, which is equal to 80.00% of its Initial Stock Price.

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SUPPLEMENTAL DISCUSSION OF U.S. FEDERAL INCOME TAX CONSEQUENCES

The following disclosure supplements, and to the extent inconsistent supersedes, the discussion in the product prospectus supplement dated January 8, 2016 under “Supplemental Discussion of U.S. Federal Income Tax Consequences.”

Under Section 871(m) of the Code, a “dividend equivalent” payment is treated as a dividend from sources within the United States. Such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments (“ELIs”) that are “specified ELIs” may be treated as dividend equivalents if such specified ELIs reference an interest in an “underlying security,” which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, the IRS has issued guidance that states that the U.S. Treasury Department and the IRS intend to amend the effective dates of the U.S. Treasury Department regulations to provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2019. Based on our determination that the Notes are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the Notes. However, it is possible that the Notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the Reference Stocks or the Notes, and following such occurrence the Notes could be treated as subject to withholding on dividend equivalent payments. Non-U.S. holders that enter, or have entered, into other transactions in respect of the Reference Stocks or the Notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the Notes and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable withholding agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

SUPPLEMENTAL PLAN OF DISTRIBUTION (CONFLICTS OF INTEREST)

Delivery of the Notes will be made against payment for the Notes on September 29, 2017, which is the second (2nd) business day following the Trade Date (this settlement cycle being referred to as “T+2”). See “Plan of Distribution” in the prospectus dated January 8, 2016. For additional information as to the relationship between us and RBCCM, please see the section “Plan of Distribution - Conflicts of Interest” in the prospectus dated January 8, 2016.

In the initial offering of the Notes, they were offered to investors at a purchase price equal to par, except with respect to certain accounts as indicated on the cover page of this document.

RBCCM or another of our affiliates may use this pricing supplement in a market-making transaction in the Notes after their initial sale. Unless we or our agent informs the purchaser otherwise in the confirmation of sale, this pricing supplement is being used in a market-making transaction.

The value of the Notes shown on your account statement may be based on RBCCM’s estimate of the value of the Notes if RBCCM or another of our affiliates were to make a market in the Notes (which it is not obligated to do). That estimate will be based upon the price that RBCCM may pay for the Notes in light of then prevailing market conditions, our creditworthiness and transaction costs. For a period of approximately three months after the issue date of the Notes, the value of the Notes that may be shown on your account statement may be higher than RBCCM’s estimated value of the Notes at that time. This is because the estimated value of the Notes will not include the

underwriting discount and our hedging costs and profits; however, the value of the Notes shown on your account statement during that period may initially be a higher amount, reflecting the addition of RBCCM's underwriting discount and our estimated costs and profits from hedging the Notes. This excess is expected to decrease over time until the end of this period. After this period, if RBCCM repurchases your Notes, it expects to do so at prices that reflect their estimated value.

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STRUCTURING THE NOTES

The Notes are our debt securities, the return on which is linked to the performance of the Reference Stocks. As is the case for all of our debt securities, including our structured notes, the economic terms of the Notes reflect our actual or perceived creditworthiness at the time of pricing. In addition, because structured notes result in increased operational, funding and liability management costs to us, we typically borrow the funds under these Notes at a rate that is more favorable to us than the rate that we might pay for a conventional fixed or floating rate debt security of comparable maturity. Using this relatively lower implied borrowing rate rather than the secondary market rate, is a factor that reduced the initial estimated value of the Notes at the time their terms were set. Unlike the estimated value included in this pricing supplement, any value of the Notes determined for purposes of a secondary market transaction may be based on a different funding rate, which may result in a lower value for the Notes than if our initial internal funding rate were used.

In order to satisfy our payment obligations under the Notes, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) on the issue date with RBCCM or one of our other subsidiaries. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of the Reference Stocks, and the tenor of the Notes. The economic terms of the Notes and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate is a factor that reduced the economic terms of the Notes to you. The initial offering price of the Notes also reflects the underwriting commission and our estimated hedging costs. These factors resulted in the initial estimated value for the Notes on the Trade Date being less than their public offering price. See “Selected Risk Considerations—The Initial Estimated Value of the Notes Is Less than the Price to the Public” above.

VALIDITY OF THE NOTES

In the opinion of Norton Rose Fulbright Canada LLP, the issue and sale of the Notes has been duly authorized by all necessary corporate action of the Bank in conformity with the Indenture, and when the Notes have been duly executed, authenticated and issued in accordance with the Indenture and delivered against payment therefor, the Notes will be validly issued and, to the extent validity of the Notes is a matter governed by the laws of the Province of Ontario or Québec, or the laws of Canada applicable therein, and will be valid obligations of the Bank, subject to equitable remedies which may only be granted at the discretion of a court of competent authority, subject to applicable bankruptcy, to rights to indemnity and contribution under the Notes or the Indenture which may be limited by applicable law; to insolvency and other laws of general application affecting creditors’ rights, to limitations under applicable limitations statutes, and to limitations as to the currency in which judgments in Canada may be rendered, as prescribed by the Currency Act (Canada). This opinion is given as of the date hereof and is limited to the laws of the Provinces of Ontario and Québec and the federal laws of Canada applicable thereto. In addition, this opinion is subject to customary assumptions about the Trustee’s authorization, execution and delivery of the Indenture and the genuineness of signatures and certain factual matters, all as stated in the letter of such counsel dated January 8, 2016, which has been filed as Exhibit 5.1 to Royal Bank’s Form 6-K filed with the SEC dated January 8, 2016.

In the opinion of Morrison & Foerster LLP, when the Notes have been duly completed in accordance with the Indenture and issued and sold as contemplated by the prospectus supplement and the prospectus, the Notes will be valid, binding and enforceable obligations of the Bank, entitled to the benefits of the Indenture, subject to applicable bankruptcy, insolvency and similar laws affecting creditors’ rights generally, concepts of reasonableness and equitable principles of general applicability (including, without limitation, concepts of good faith, fair dealing and the lack of

bad faith). This opinion is given as of the date hereof and is limited to the laws of the State of New York. This opinion is subject to customary assumptions about the Trustee's authorization, execution and delivery of the Indenture and the genuineness of signatures and to such counsel's reliance on the Bank and other sources as to certain factual matters, all as stated in the legal opinion dated January 8, 2016, which has been filed as Exhibit 5.2 to the Bank's Form 6-K dated January 8, 2016.

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